

CLAIMS

What is claimed is:

1. An attachment structure to hold a motor in a motor containing part provided in a base body of a toy, comprising:

a motor holding plate movable on a shaft attached to the base body, between a first position, wherein the motor containing part is open, and a second position wherein the motor containing part is closed, the motor holding plate holding a body part of the motor in the motor containing part while in the second position, and the motor holding plate including a member which is received by an engage portion provided on the base body when the motor holding plate is in the second position.
2. The attachment structure of claim 1, wherein the shaft is parallel to a shaft of the motor held in the motor containing part, and the engage portion is provided on an opposite side of the motor containing part with respect to the shaft.
3. The attachment structure of claim 1, wherein the motor is a DC motor with terminals provided on a rear side and on the body part, the motor containing part is provided with conductive pieces which are electrically connected to each of the terminals of the motor, and when the motor is held in the motor containing part, the corresponding conductive piece is electrically connected to each of the terminals.
4. The attachment structure of claim 1, wherein the motor is a DC motor with terminals provided on a rear side and the body part, respectively, the motor containing part is provided with a conductive piece, the motor holding plate is made of conductive material, the conductive piece is electrically connected to the terminal on the rear side of the motor and the motor holding plate is electrically connected to the

terminal on the body part of the motor, when the motor is held in the motor containing part, and the motor holding plate is moved to the second position.

5. A toy, comprising:

a base body provided with a battery containing part to contain a battery and a motor containing part to contain a motor; and

a motor holding member to pivotably move between an open position to open the motor containing part and a closed position to close the motor containing part, and the motor holding member including a member removably engaged with the base body, when the motor holding member is in the closed position.

6. The toy of claim 5, wherein the motor containing part has a first electrode connected to one electrode of the battery at a first position with which a peripheral body part of the motor is brought into contact, and a second electrode connected to another electrode of the battery at a second different position which is insulated relative to the first position, the motor is a DC motor, and at least a portion of the peripheral body part serves as one of positive and negative terminals of the motor.

7. The toy of claim 6, wherein a rear side of the motor is provided with the other of the positive and negative terminals of the motor, and the motor is contained in the motor containing part such that the peripheral body part is connected to the first electrode while the rear side is connected to the second electrode.

8. A racing vehicle toy, comprising:

an attachment structure for holding a motor in a motor containing part provided in a base body of the toy, the attachment structure including:

a motor holding plate that pivots relative to the base body between an open position to open the motor containing part and a closed position to close the motor containing part, the motor holding plate holds the motor in the motor containing part in the closed position, and the motor holding plate includes a member removably engaged with the base body, when the motor holding plate is in the closed position.

9. The racing vehicle toy of claim 8, wherein the motor holding plate pivots on a first shaft which is parallel to a second shaft of the motor, when the motor is contained in the motor containing part, and the member is removably engaged on an opposite side of the motor containing part with respect to the first shaft.

10. The racing vehicle toy of claim 8, wherein the motor is a DC motor with terminals provided on a rear side and a body part thereof, the motor containing part being provided with conductive pieces which are electrically connected to each of the terminals of the motor, and when the motor is contained in the motor containing part, the corresponding conductive piece is electrically connected to each of the terminals.

11. The racing vehicle toy of claim 8, wherein the motor is a DC motor with terminals provided on a rear side and a body part thereof, respectively, the motor containing part being provided with a conductive piece, the motor holding plate is made of conductive material, the conductive piece is electrically connected to the terminal on the rear side of the motor, and the motor holding plate is electrically connected to the terminal on the body part of the motor, when the motor is held in the motor containing part, and the motor holding plate is moved to the closed position.

12. The attachment structure of claim 1, wherein the motor holding plate comprises a material having a high radiation effect.

13. The attachment structure of claim 12, wherein the material is a metal.

14. The attachment structure of claim 13, wherein the metal comprises at least one of copper and aluminum.

15. The attachment structure of claim 1, wherein the motor holding plate has a shape with a high radiation effect.

16. The attachment structure of claim 1, wherein the motor holding plate comprises at least one of a metal and a synthetic resin and further comprises an aperture formed therein, to have a high radiation effect.

17. The toy of claim 5, wherein the motor holding plate comprises a material having a high radiation effect.

18. The toy of claim 17, wherein the material is a metal.

19. The toy of claim 18, wherein the metal comprises at least one of copper and aluminum.

20. The toy of claim 5, wherein the motor holding plate has a shape with a high radiation effect.

21. The toy of claim 5, wherein the motor holding plate comprises at least one of a metal and a synthetic resin and further comprises an aperture formed therein, to have a high radiation effect.
22. The racing vehicle toy of claim 8, wherein the motor holding plate comprises a material having a high radiation effect.
23. The racing vehicle toy of claim 22, wherein the material is a metal.
24. The racing vehicle toy of claim 23, wherein the metal comprises at least one of copper and aluminum.
25. The racing vehicle toy of claim 8, wherein the motor holding plate has a form with a high radiation effect.
26. The racing vehicle toy of claim 25, wherein the motor holding plate comprises at least one of a metal and a synthetic resin and further comprises an aperture formed therein, to have a high radiation effect.
27. The attachment structure of claim 1, wherein the member elastically engages the engage portion of the base body.
28. The toy of claim 5, wherein the member elastically engages the engage portion of the base body.

29. The racing vehicle toy of claim 8, wherein the member elastically engages the engage portion of the base body.

30. A toy, comprising:
a toy chassis; and
a motor attachment plate attached on one side to a rotational shaft attached to the toy chassis to rotate between an open position and a closed position, wherein the plate is detachably attached to the toy chassis on an opposing side, and the plate serves as a radiation plate.

31. A toy, comprising:
a chassis;
a motor containing part on the chassis;
a motor removably mounted in the motor containing part;
a motor clip rotatably attached at a first end to a shaft on the chassis adjacent the motor containing part and the clip contacting the motor, said shaft being approximately parallel to a rotational shaft of the motor, and pivoting between open and closed positions relative to the motor containing part, wherein a second end of the clip is detachably engaged to the chassis adjacent the motor containing part, to facilitate removal and replacement of the motor relative to the motor containing part.

32. A racing vehicle toy, comprising:
a toy chassis; and
a motor clip rotatably attached on one side to a shaft attached to a base body of the toy chassis to pivot between open and closed positions relative to a motor

containing part of a base body of the toy, an opposing side of said clip being removably attached to the base body.